



## Performance Data Sheet

### VSCF518ZXT

#### General Information

|                       |                          |                                 |              |
|-----------------------|--------------------------|---------------------------------|--------------|
| <b>Model</b>          | VSCF518ZXT               | <b>Refrigerant</b>              | R-404A       |
| <b>Test Condition</b> | ARI                      | <b>Performance Test Voltage</b> | 230V 3~ 60HZ |
| <b>Return Gas</b>     | 18.3°C (65°F) RETURN GAS | <b>Motor Type</b>               | 3PH          |

#### Performance Information

| Evap Temp (°F) | Condensing Temperature (°F) |       |       |       |       |       |       |       |
|----------------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|
|                |                             | 80    | 90    | 100   | 110   | 120   | 130   | 140   |
| <b>-40</b>     | Btu/h                       | 15400 | 14400 | 13500 | 12400 | 11400 | 10200 | 8850  |
|                | Watts                       | 3040  | 3220  | 3430  | 3690  | 4000  | 4380  | 4840  |
|                | Amps                        | 12.8  | 13.1  | 13.5  | 14.1  | 15.0  | 16.5  | 18.7  |
|                | Lb/h                        | 239   | 234   | 231   | 229   | 229   | 230   | 231   |
| <b>-35</b>     | Btu/h                       | 17600 | 16500 | 15400 | 14300 | 13000 | 11700 | 10300 |
|                | Watts                       | 3190  | 3370  | 3580  | 3830  | 4130  | 4500  | 4940  |
|                | Amps                        | 13.3  | 13.6  | 14.0  | 14.5  | 15.3  | 16.7  | 18.8  |
|                | Lb/h                        | 269   | 265   | 263   | 262   | 262   | 262   | 263   |
| <b>-30</b>     | Btu/h                       | 20000 | 18800 | 17600 | 16300 | 14900 | 13400 | 11800 |
|                | Watts                       | 3340  | 3530  | 3740  | 3990  | 4280  | 4640  | 5070  |
|                | Amps                        | 13.8  | 14.1  | 14.4  | 14.8  | 15.6  | 16.9  | 18.8  |
|                | Lb/h                        | 304   | 301   | 300   | 299   | 299   | 299   | 299   |
| <b>-25</b>     | Btu/h                       | 22700 | 21400 | 19900 | 18500 | 16900 | 15200 | 13400 |
|                | Watts                       | 3490  | 3690  | 3910  | 4160  | 4450  | 4800  | 5220  |
|                | Amps                        | 14.1  | 14.4  | 14.7  | 15.1  | 15.9  | 17.0  | 18.9  |
|                | Lb/h                        | 346   | 343   | 342   | 341   | 340   | 340   | 338   |
| <b>-20</b>     | Btu/h                       | 25800 | 24200 | 22600 | 20900 | 19100 | 17200 | 15100 |
|                | Watts                       | 3630  | 3850  | 4080  | 4340  | 4640  | 4990  | 5400  |
|                | Amps                        | 14.4  | 14.8  | 15.1  | 15.5  | 16.1  | 17.2  | 19.0  |
|                | Lb/h                        | 393   | 390   | 389   | 388   | 387   | 385   | 383   |
| <b>-15</b>     | Btu/h                       | 29100 | 27300 | 25400 | 23500 | 21500 | 19300 | 17000 |
|                | Watts                       | 3780  | 4010  | 4260  | 4530  | 4840  | 5190  | 5600  |
|                | Amps                        | 14.7  | 15.1  | 15.4  | 15.8  | 16.4  | 17.5  | 19.1  |
|                | Lb/h                        | 446   | 443   | 442   | 440   | 438   | 435   | 431   |
| <b>-10</b>     | Btu/h                       | 32800 | 30800 | 28600 | 26400 | 24100 | 21700 | 19100 |
|                | Watts                       | 3910  | 4170  | 4440  | 4720  | 5040  | 5400  | 5820  |
|                | Amps                        | 14.9  | 15.4  | 15.7  | 16.1  | 16.7  | 17.7  | 19.3  |
|                | Lb/h                        | 505   | 502   | 500   | 498   | 495   | 490   | 485   |
| <b>-5</b>      | Btu/h                       | 36900 | 34500 | 32100 | 29600 | 27000 | 24200 | 21300 |
|                | Watts                       | 4020  | 4320  | 4610  | 4920  | 5250  | 5620  | 6050  |
|                | Amps                        | 15.2  | 15.7  | 16.1  | 16.5  | 17.1  | 18.1  | 19.6  |
|                | Lb/h                        | 570   | 568   | 565   | 561   | 557   | 551   | 543   |

|    |       |       |       |       |       |       |       |       |
|----|-------|-------|-------|-------|-------|-------|-------|-------|
| 0  | Btu/h | 41300 | 38600 | 35900 | 33000 | 30100 | 27000 | 23800 |
|    | Watts | 4130  | 4450  | 4770  | 5100  | 5460  | 5850  | 6280  |
|    | Amps  | 15.4  | 16.0  | 16.5  | 16.9  | 17.5  | 18.5  | 19.9  |
|    | Lb/h  | 643   | 639   | 635   | 631   | 625   | 617   | 607   |
| 5  | Btu/h | 46200 | 43100 | 40000 | 36800 | 33500 | 30100 | 26400 |
|    | Watts | 4210  | 4570  | 4920  | 5280  | 5660  | 6070  | 6520  |
|    | Amps  | 15.7  | 16.4  | 16.9  | 17.4  | 18.0  | 19.0  | 20.4  |
|    | Lb/h  | 722   | 718   | 713   | 706   | 698   | 689   | 676   |
| 10 | Btu/h | 51400 | 48000 | 44500 | 40900 | 37200 | 33400 | 29400 |
|    | Watts | 4260  | 4660  | 5060  | 5450  | 5860  | 6300  | 6770  |
|    | Amps  | 16.1  | 16.9  | 17.4  | 18.0  | 18.6  | 19.6  | 21.0  |
|    | Lb/h  | 808   | 803   | 796   | 788   | 778   | 766   | 751   |

| COEFFICIENTS | CAPACITY      | POWER         | CURRENT       | MASS FLOW     |
|--------------|---------------|---------------|---------------|---------------|
| C1           | 6.368130E+04  | 2.338886E+01  | -1.590682E+01 | 6.980886E+02  |
| C2           | 1.434028E+03  | -6.989201E+01 | -2.763673E-01 | 1.410103E+01  |
| C3           | -3.164445E+02 | 8.248302E+01  | 8.918039E-01  | -1.485009E+00 |
| C4           | 1.253925E+01  | -1.107621E+00 | -1.554854E-03 | 1.760905E-01  |
| C5           | -6.009729E+00 | 1.445625E+00  | 6.216760E-03  | 3.803123E-02  |
| C6           | 7.872464E-01  | -5.505213E-01 | -8.525331E-03 | 1.514396E-02  |
| C7           | 2.469129E-02  | -4.887438E-03 | 2.106597E-05  | 2.958467E-04  |
| C8           | -5.772070E-02 | 8.634852E-03  | 2.631943E-05  | -4.786064E-04 |
| C9           | -4.127157E-03 | -4.312335E-03 | -2.611843E-05 | -3.128821E-04 |
| C10          | -4.022247E-03 | 2.005231E-03  | 2.845829E-05  | -6.555992E-05 |

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature